

In the Claims:

Please amend the claims as follows:

Claim 1 (Currently amended) A sub-sea controller (34) located under the sea level for managing a plurality of tools in a sub-sea well installation, the sub-sea controller (34) comprising:

- downloading means to download an application module (35<sub>a</sub>) to the sub-sea controller (34); and
- a virtual machine (36) to execute the downloaded application module (35<sub>a</sub>).

Claim 2 (Currently amended) The sub-sea controller (412) according to claim 1, further comprising:

- a native application (47) implemented within the sub-sea controller (412); and
- a native interface (48) implemented within the sub-sea controller (412), the native interface (48) enabling the application module (45<sub>a</sub>) to access the native application (47).

Claim 3 (Currently amended) The sub-sea controller (412) according to claim 2, wherein the native interface (48) enables the native application (47) to access the application module (45<sub>a</sub>).

Claim 4 (Currently amended) The sub-sea controller (412) according to any one of claims 2 or 3 claim 2, further comprising:

- a native memory wherein the native application (47) is executed; and
- a defined memory wherein the application module (45<sub>a</sub>) is executed, the defined memory being distinct from the native memory.

Claim 5 (Currently amended) The sub-sea controller (412) according to any one of claims 2 to 4 claim 2, further comprising:

- a protection register, the protection register authorizing an access to the native application only if a key code is written hereinto.

accessing means to access the protection register from the application module.

Claim 6 (Currently amended) The sub-sea controller (45<sub>a</sub>) according to any one of claims 1 to 5 of claim 1, wherein the application module (45<sub>a</sub>) contains a driver for a tool.

Claim 7 (Currently amended) A sub-sea well installation comprising a sub-sea controller (34) according to any one of claims 1 to 6 claim 1.

Claim 8 (Currently amended) A method for updating a software of a sub-sea controller (34) located under the sea level, the sub-sea controller (34) managing a plurality of tools in a sub-sea well, the method comprising:

- downloading an application module (35<sub>a</sub>) into the sub-sea controller (34); and
- executing the application module (35<sub>a</sub>) using a virtual machine (36) implemented within the sub-sea controller (34).

Claim 9 (Currently amended) The method according to claim 8, further comprising:

- executing a native application (47) of the sub-sea controller (42) within the sub-sea controller (412);
- executing a native interface within the sub-sea controller (412);
- accessing the native interface from the native application (47) to exchange data with the application module (45<sub>a</sub>).

Claim 10 (Currently amended) The method according to claim 8, further comprising:

- executing a native application (47) of the sub-sea controller (42) within the sub-sea controller (412);
- executing a native interface within the sub-sea controller (412);
- accessing the native interface from the application module (45<sub>a</sub>) to exchange data with the native application (47).

Claim 11 (Currently amended) The method according to any one of claims 9 or 10 to claim 9, wherein the downloading and the executing of the application module (45<sub>a</sub>) are

performed without interrupting an executing of the native application of the sub-sea controller (412).

Claim 12 (Currently amended) The method according to any one of claims 9 to 11 of claim 9, further comprising:

- executing the application module (45<sub>a</sub>) in a defined memory;
- executing the native application (45<sub>b</sub>) in a native memory;
- wherein the defined memory is distinct from the native memory.

Claim 13 (Currently amended) The method according to anyone of claims 8 to 13 of claim 8 wherein the application module (45<sub>a</sub>) contains a driver for a tool.